

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE UNDER 37 CFR 1.10

I hereby certify that this transmittal and the documents referred to as attached therein are being deposited on July 22, 2003 with the United States Postal Service in an envelope as "Express Mail Post Office to Addressee," mailing label No. EV 324942801 US addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

July 22, 2003
Date

Eddy Song
Eddy Song

MAIL STOP PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR FILING A PATENT APPLICATION
UNDER 37 CFR 1.53(b)

This is a request for filing the following continuing application for a prior application:

- ☒ Continuation
☐ Divisional
☐ Continuation-in-part
☐ attached is an amendment for added subject matter
☐ Continuing application to permit consideration of an information disclosure statement under 37 CFR 1.97.

19972 U.S. PTO
10/625480

07/22/03

PARTICULARS OF PRIOR APPLICATIONS

Application Serial No.: 09/851,519 Patent No.: 6,596,643
Confirmation No.: Unknown Issue Date: July 22, 2003
Filed: May 7, 2001
Title: CVD TiSiN Barrier for Copper Integration

Name(s) of applicant(s) (as originally filed and as last amended) and the current correspondence address and country of citizenship for each:

First Inventor:

Name: Ling Chen
Residence: Sunnyvale, CA
Country of Citizenship: USA
Post Office Address: same as above

Second Inventor:

Name: Christophe Marcadal
Residence: Santa Clara, CA
Country of Citizenship: USA
Post Office Address: same as above

Third Inventor:

Name: Hyungsuk Alexander Yoon
Residence: Santa Clara, CA
Country of Citizenship: USA
Post Office Address: same as above

INVENTORSHIP STATEMENT

- (a) ☐ This application discloses and claims only subject matter disclosed in the prior application whose particulars are set out above, and the inventor(s) in this application are:
- ☐ the same
- ☐ less than those named in the prior application, and it is requested that the following inventor(s) for the prior application be deleted:
- (b) ☐ This application discloses and claims additional disclosure and a new declaration or oath is being filed. With respect to the prior application whose particulars are set out above, the inventor(s) in this application are:
- ☐ the same
- ☐ add the following additional inventor(s):
- (c) ☒ The inventorship for all the claims in this application is:
- ☒ the same
- ☐ not the same; and an explanation, including the ownership of the various claims at the time the last claimed invention was made, is submitted.

DECLARATION OR OATH

- ☒ Continuation or Divisional (copy of original Declaration/Oath is attached)
- ☐ Continuation-in-part
- ☐ Attached, and executed by:
- ☐ inventor(s)
- ☐ legal representative of inventor(s) (37 CFR 1.42 or 1.43)

☐ joint inventor or person showing a proprietary interest for inventor who refused to sign or cannot be reached (37 CFR 1.47)

☐ This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached.

☒ Not attached

☐ Application is made by a person authorized under 37 CFR 1.41(c) on behalf of all of the above-named applicant(s).

☐ Attached is a showing that the filing is authorized.

IDENTIFICATION OF CLAIMS FOR FURTHER PROSECUTION

☒ The fees to be charged are to be based on the number of claims remaining as a result of the:

☐ attached preliminary amendment

☐ cancellation of claim(s)

☒ claims in the application

FEE CALCULATION (37 CFR 1.16)

	NUMBER OF CLAIMS FILED	LESS NUMBER PAID BY BASIC FEE	NUMBER OF EXTRA CLAIMS (Not less than zero)	LARGE ENTITY FEE
Basic Fee				\$750.00
Total Claims	7	- 20 =	X \$18 =	\$0.00
Independent Claims	3	- 3 = 0	X \$84 =	\$0.00
First Presentation of Multiple Dependent Claims + \$280				-0-
Total Filing Fee Calculation				\$750.00

PETITION FOR SUSPENSION OF PROSECUTION FOR THE TIME NECESSARY TO FILE AN AMENDMENT

☐ There is provided herewith a Petition for Suspension of Prosecution for the Time Necessary to File an Amendment (37 CFR 1.103) – New Application Filed Concurrently

FEE PAYMENT BEING MADE AT THIS TIME

☒ No filing fee is submitted

- | | | |
|--------------------------|--|----------|
| <input type="checkbox"/> | Filing Fee | \$750.00 |
| <input type="checkbox"/> | Recording Assignment [37 CFR 1.21(h)] | \$ 40.00 |
| <input type="checkbox"/> | Petition fee for filing by other than all the inventors or person
not the inventor where inventor refused to sign or cannot be
reached [37 CFR 1.47 and 1.17(h)] | \$130.00 |
| <input type="checkbox"/> | Processing and retention fee [37 CFR 1.53(d) and 1.21(l)] | \$130.00 |
| <input type="checkbox"/> | Please charge Deposit Account No.
in the amount of | .00 |
| | (A duplicate copy of this request is enclosed) | |

AUTHORIZATION TO CHARGE ADDITIONAL FEES

- ☐ The Commissioner is hereby authorized to charge the following additional fees which may be required by this paper and during the entire pendency of this application, to **Deposit Account No.**
- ☐ 37 CFR 1.16(a), (f) or (g) (filing fees)
 - ☐ 37 CFR 1.16(b), (c) and (d) (presentation of extra claims)
 - ☐ 37 CFR 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
 - ☐ 37 CFR 1.17 (application processing fees)
 - ☐ 37 CFR 1.18 [issue fee at or before mailing of Notice of Allowance, pursuant to 37 CFR 1.311(b)]

INSTRUCTIONS AS TO OVERPAYMENT

- ☐ **Credit Deposit Account No.**

PRIORITY 35 USC 119

- ☐ Priority of application Serial No. _____ filed on _____ in United States is claimed under 35 USC 119.
- ☐ The certified copy has been filed on _____ in prior U.S. Application Serial No. _____, which prior application was filed on _____
- ☐ Certified copy will follow.

RELATE BACK 35 USC 120

- ☒ This is a
- ☐ divisional
 - ☒ continuation

☐ continuation-in-part

of copending application(s)

☒ Serial No. 09/851,519 filed on May 7, 2001, now Patent No. 6,596,643,
issued on July 22, 2003.

☐ International Application filed on _____ and which designated
the U.S.”

ASSIGNMENT

- ☒ The prior application is assigned of record to: Applied Materials, Inc.
- ☐ An assignment of the invention to _____ is attached.
- ☐ Form PTO 1595 (Recordation Form Cover Sheet) is also attached (in duplicate).

POWER OF ATTORNEY

- ☐ The power of attorney in the prior application is to:

Donald Verplancken	Registration No. 33,217
Peter J. Sgarbossa	Registration No. 25,610
Lawrence Edelman	Registration No. 25,226
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Robert W. Mulcahy	Registration No. 25,436
Walter Benjamin Glenn	Registration No. 44,713
B. Todd Patterson	Registration No. 37,906
Raymond R. Moser, Jr.	Registration No. 34,682
Keith M. Tackett	Registration No. 32,008
Douglas H. Elliott	Registration No. 32,982
William B. Patterson	Registration No. 34,102

Send correspondence to:

Patent Counsel
APPLIED MATERIALS, INC.
P.O. Box 450A
Santa Clara, CA 95052

Direct telephone calls to:

B. Todd Patterson
MOSER, PATTERSON & SHERIDAN, L.L.P.
(713) 623-4844

- ☐ The power appears in the original papers in the prior application.
- ☐ The power does not appear in the original papers, but was filed on _____.
- ☐ A new power has been executed and is attached.

- ☒ Address all future communications to:
Patent Counsel
APPLIED MATERIALS, INC.
P.O. Box 450A
Santa Clara, CA 95052

Direct telephone calls to:
Eddy Song
MOSER, PATTERSON & SHERIDAN, L.L.P.
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MAINTENANCE OF COPENDENCY OF PRIOR APPLICATION

- ☐ A petition, fee and response has been filed to extend the term in the pending prior application until . (copy attached)

CONDITIONAL PETITION FOR EXTENSION OF TIME IN PRIOR APPLICATION

- ☐ A conditional petition for extension of time is being filed in the pending prior application. (copy attached)

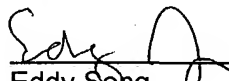
ABANDONMENT OF PRIOR APPLICATION

- ☐ Please abandon the prior application at a time while the prior application is pending or when the petition for extension of time or to revive in that application is granted, and when this application is granted a filing date, so as to make this application copending with said prior application. At the same time, please add the words "now abandoned" to the amendment to the specification set forth in the "Relate Back-35 USC 120" section (page 5).

INFORMATION DISCLOSURE STATEMENT

- ☐ Submitted herewith is an Information Disclosure Statement.

Respectfully submitted,



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